

Generator set data sheet

Model: C55 D5e (B3.3)
Frequency: 50 Hz
Fuel type: Diesel



**Power
Generation**

Spec sheet:	S-6282-EN
Noise data sheet (open):	MSP-3026
Airflow data sheet:	MCP-2022

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	55 (44)				50 (40)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	1.1	1.9	2.7	3.5	1.0	1.7	2.5	3.2
L/hr	4	7.2	10.2	13.2	3.8	6.4	9.4	12.0

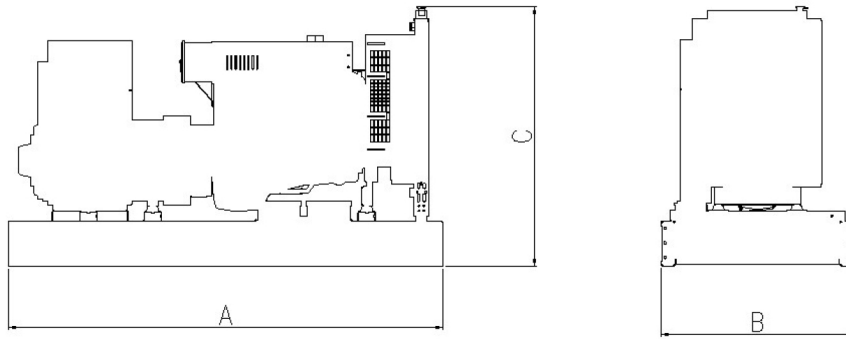
Engine	Standby rating	Prime rating
Engine manufacturer	Cummins	
Engine model	4BTAA3.3-G14	
Configuration	Inline, 4-Cylinder Diesel	
Aspiration	Turbocharged and after-cooled	
Gross engine power output, kWm	62.6	58
BMEP at set rated load, kPa	1538	1428
Bore, mm	95	
Stroke, mm	115	
Rated speed, rpm	1500	
Piston speed, m/s	5.75	
Compression ratio	19:1	
Lube oil capacity, L	8	
Overspeed limit, rpm	1650	
Regenerative power, kW	N.A.	
Governor type	Mechanical as standard	
Starting voltage	12V DC	

Fuel flow	
Maximum fuel flow, L/hr	45
Maximum fuel inlet restriction, mm Hg (clean filter)	101.6
Maximum fuel inlet temperature, °C	70

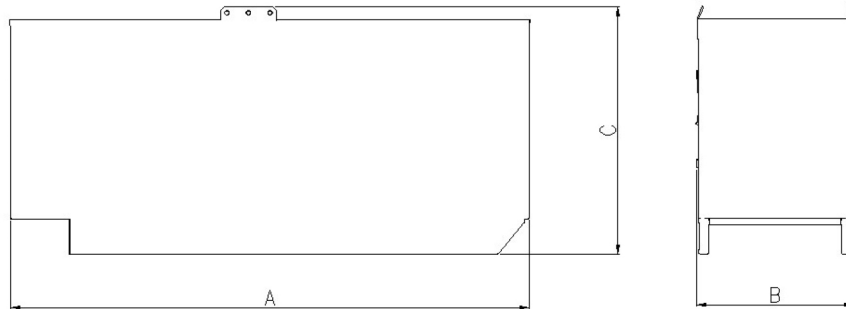
Air	Standby Rating	Prime Rating	
Combustion air, m ³ /min	4.92	4.47	
Maximum air cleaner restriction, kPa	2.5		
Exhaust			
Exhaust gas flow at set rated load, m ³ /min	13.02	11.63	
Exhaust gas temperature, °C	540	492	
Maximum exhaust back pressure, kPa	10		
Standard set-mounted radiator cooling			
Ambient design, °C @ 12.7mm H ₂ O	55		
Fan load, KW _m	2 +/- 1		
Coolant capacity (with radiator), L	10.7		
Cooling system air flow, m ³ /sec @ 12.7mm H ₂ O	1.611		
Total heat rejection, BTU/min	1877	1734	
Maximum cooling air flow static restriction mm H ₂ O	25.4		
Weights*	Open	Enclosed	
Unit dry weight kg (Standard skid)	922	1236	
Unit wet weight kg (Standard skid)	1010	1414	
Unit dry weight kg (Optional skid)	1140	1543	
Unit wet weight kg (Optional skid)	1228	1631	
Dimensions	Length	Width	Height
Open set dimensions (Standard skid)	2050	967	1510
Enclosed set dimensions (Standard skid)	2270	975	1920
Open set dimensions (Optional skid)	2270	967	1720
Enclosed set dimensions (Optional skid)	2270	975	2115

Genset outline

Open set



Enclosed set



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

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Alternator data

Connection ¹	Temp rise °C	Duty ²	Voltage	Alternator
Wye -3 phase	163/125	S/P	UC122 4D	380-415
Wye -3 phase	150/105	S/P	UC122 4E	380-415

Ratings definitions

Emergency Standby Power (ESP)	Limited-Time running Power (LTP):	Prime Power (PRP)	Base Load (Continuous) Power (COP)
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789 and DIN 6271.	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789 and DIN 6271.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789 and DIN 6271.

Formulas for calculating full load currents:

Single phase output

$$\frac{\text{kW} \times \text{SinglePhase Factor} \times 1000}{\text{Voltage}}$$

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$